

## ABSTRACT OF THE DISCLOSURE

A common mode voltage detection circuit 105 detects a common mode voltage VCM from differential output terminals of a differential output circuit 101. The common mode voltage  
5 detection circuit outputs a detected voltage VCM2 in accordance with the common mode voltage VCM. An OTA 106 in the common mode feedback loop inputs or outputs multiple currents of the same phase in accordance with a voltage difference between a reference voltage VCM1 and the detected voltage VCM2. The respective  
10 multiple currents of the same phase are inputted/outputted to/from the two respective terminals of the differential output terminals. The common mode voltage can be reduced by flowing the currents into the differential output terminals, and can be increased by leading the currents from the differential output  
15 terminals. Thus, a phase margin or a gain margin of a control signal loop can be secured even with low current consumption, thereby realizing stable operation of the circuit.